No. 757,226. PATENTED APR. 12, 1904.

R. REININGER.

CARPET FASTENER.

APPLICATION FILED OCT. 9, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

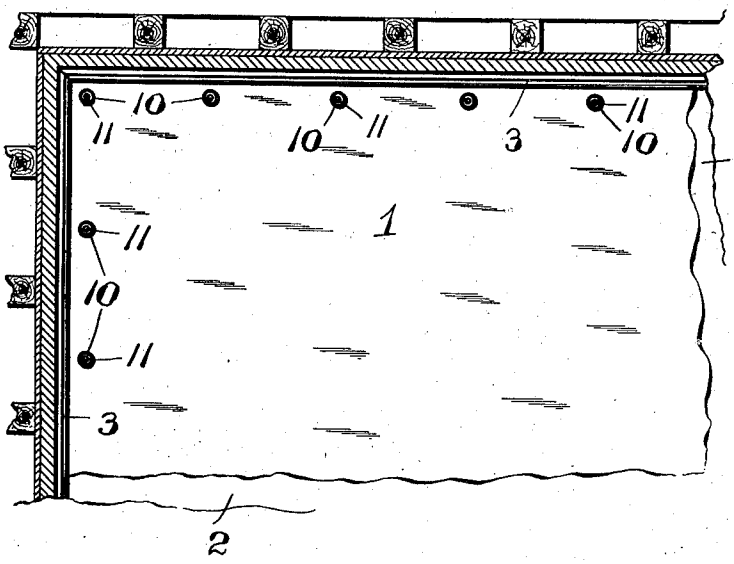


Fig. 1

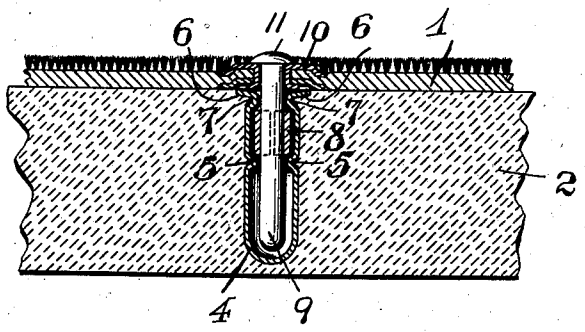


Fig. 2

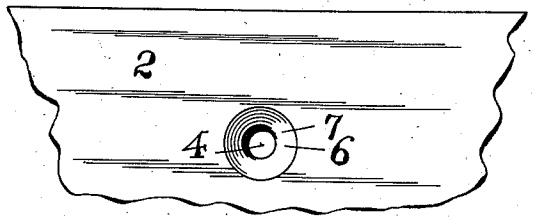
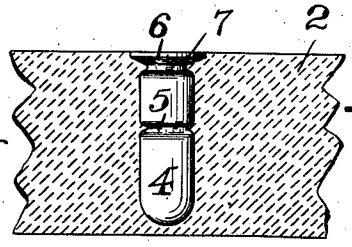


Fig. 3

Fig. 4



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R. REININGER.

CARPET FASTENER.

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NO MODEL. 2 SHEETS—SHEET 2.

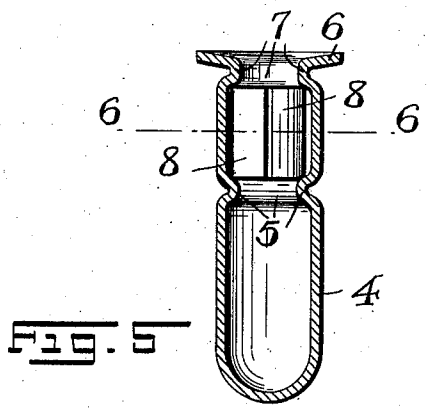


Fig. 5

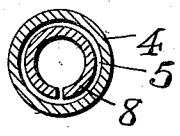


Fig. 6

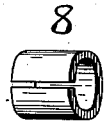


Fig. 7

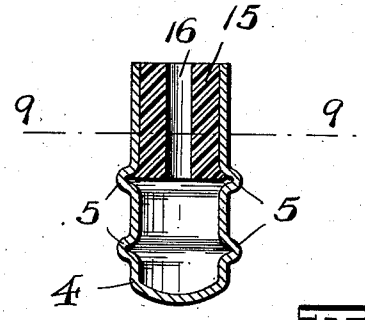


Fig. 8

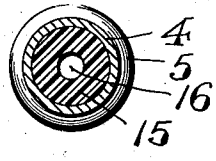


Fig. 9

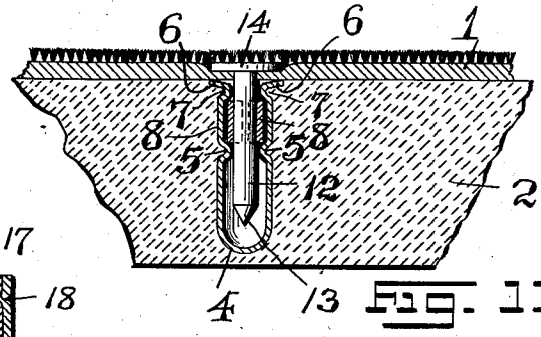


Fig. 11

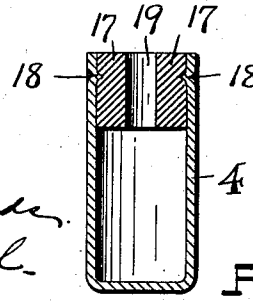


Fig. 10

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No. 757,226. Patented April 12, 1904.

UNITED STATES PATENT OFFICE.

RICHARD REININGER, OF NEWARK, NEW JERSEY.

CARPET-FASTENER.

SPECIFICATION forming part of Letters Patent No. 757,226, dated April 12, 1904.

Application filed October 9, 1903. Serial No. 176,361. (No model.)

To all whom it may concern:

Be it known that I, RICHARD REININGER, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Carpet-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to numerals of reference marked thereon, which form a part of this specification.

This invention has reference to improvements in carpet-fasteners; and the invention has for its primary object to provide a novel fastening device or means adapted for use especially with carpets which are to be laid upon cement and other similar floors of fireproof buildings, but which may also be used with the ordinary wood floors.

The principal purposes of the present invention are to provide a carpet-fastener of the general character hereinafter specified and one in which the use of the usual nails or tacks are dispensed with and by means of which fastener a carpet can be secured in position upon the floor by bringing a pin, stud, or the like which is connected with the carpet in frictional but detachable holding engagement with a suitable holding means arranged in a receiving casing, shell, or socket, which is embedded in the cement floor or held in a suitable hole in the wood flooring, the said holding means being either a spring collar or sleeve or a tubular frictional pad or the like.

Other objects of this invention are cheapness and simplicity of construction, the parts of the device being of such arrangement that they can be quickly brought into their holding relations to secure the carpet in place and can just as readily be separated when it is desired to remove the carpet from the floor.

The present invention consists, therefore, in the novel construction of carpet-fastener hereinafter set forth; and, furthermore, this invention consists in the various arrangements and combinations of parts, all of which will be described in detail in the following specification and then finally embodied in the clauses of the claim which are appended to and form an essential part of the said specification.

The invention is clearly illustrated in the accompanying drawings, in which—

Figure 1 represents, partly in section and partly in plan, the corner of a room and in plan the one corner portion of a carpet secured in place upon the floor by means of one form of holding device or carpet-fastener embodying the principles of my present invention. Fig. 2 is a transverse vertical section of a portion of a cement or other floor, a portion of a carpet, and a carpet-fastener, made according to the principles of my invention, illustrating one manner of arranging a portion of the fastener in the floor and one means of bringing a holding stud or pin, which is connected with the carpet, in separable holding engagement with a spring collar or sleeve arranged within the main body of the device. Fig. 3 is a plan view of a portion of the floor and a top edge view of the stud or pin receiving socket or shell of the fastener, and Fig. 4 is a sectional representation of the floor with the said receiving socket or shell illustrated in elevation. Fig. 5 is a vertical sectional representation of the said stud or pin receiving socket or shell with the spring collar or sleeve in its position therein, the said collar or sleeve being represented in elevation. Fig. 6 is a horizontal section of the same, said section being taken on line 6 6 in said Fig. 5; and Fig. 7 is a perspective view of the said spring collar or sleeve Fig. 8 is a sectional representation of a stud or pin receiving socket or shell provided with a frictional holding-pad, of rubber or other analogous material; and Fig. 9 is a horizontal section of the same, said section being taken on line 9 9 in said Fig. 8. Fig. 10 is another modified form of construction of pin or stud receiving socket or shell provided with a tubular retaining device, preferably made of wood; and Fig. 11 is a sectional representation similar to that represented in Fig. 2 of the drawings of still another modified form and construction of carpet-fastener embodying the leading features of my invention.

Similar characters of reference are employed in all of the said above-described views to indicate corresponding parts.

Referring to the several figures of the drawings, and more especially to Figs. 1 to 7, inclusive, the reference character 1 indicates the carpet, and 2 is any suitable floor of a building, said floor being either of cement, wood, or any other suitable material, the drawings hereof indicating a flooring of cement or other like material. Suitably secured in the said flooring and at the desired distances along the surbase 3 by being embedded in the cement floor before it has become set and hardened or by being driven into suitably-disposed receiving holes or openings drilled or otherwise formed in the flooring are suitable stud or pin receiving sockets or shells 4, preferably spun out of sheet metal, but which may be otherwise made, as will be clearly evident. Each socket or shell 4 is preferably formed with one or more inwardly-extending annular projections or bead-like members 5, which serve to firmly retain the said receiving sockets or shells in their embedded positions in the flooring, and the upper end portion of each socket or shell 4 is preferably made with an outwardly-flaring and funnel or bell shaped mouth 6 and a reduced portion 7, forming a throat, as clearly illustrated in Figs. 2, 3, 4, and 5, but which may be dispensed with, if desired, as clearly indicated in Figs. 8 and 10 of the drawings. Suitably arranged within the said shell or socket 4, and preferably in the upper portion thereof between the uppermost inwardly-extending annular bead 5 and the throat 7, is a split collar or sleeve 8, made from spring metal; but this collar or sleeve may be arranged in any other suitable portion of the said receiving socket or shell 4, as will be clearly understood. Owing to the split arrangement of the said sleeve or collar 8, its exterior or maximum diameter being less than the internal or minimum diameter of the shell 4, the said collar or sleeve can readily be forced into position in the said receiving shell or socket 4 and is held in its position therein to receive a fastening stud or pin 9 or the like and retain the said stud or pin 9 by frictional contact in its operative but separable holding relation within the said socket or shell 4. The carpet is provided along its marginal edge portions with correspondingly-placed eyelets 10 or other perforated receiving devices, in which the studs or pins 9 are inserted, and then forced into their holding engagement with the spring sleeves or collars 8 in the receiving sockets or shells 4, the said studs or pins being formed with suitable heads or enlargements 11, adapted to be brought against the upper surfaces of the eyelets or other receiving devices 10, as clearly illustrated in Fig. 2 of the drawings.

If desired, the eyelets or other perforated fastening devices 10, with which the carpet is provided, may be dispensed with, as indicated in Fig. 11 of the drawings, in which case a pin or nail 12, provided with a pointed end 13 and a head 14, may be inserted through the carpet and then forced into holding relation with the split collar or sleeve 8 in the receiving socket or shell 4, as clearly indicated.

Instead of the split collar or sleeve 8 the receiving socket or shell 4 may be provided with a stud or pin receiving device or pad, as 15, preferably made of rubber, leather, or any other similar material, the same being provided with a receiving duct or opening, as 16, as illustrated in Figs. 8 and 9. This device or pad 15 is forcibly compressed in the receiving socket or shell 4, being held therein by frictional contact, and the receiving duct or opening 16, which is made with a slightly smaller cross-section than that of the pin, stud, or nail, is adapted to receive the said pin, stud, or nail and holds the same in place by frictional engagement, as will be clearly evident.

Another device is represented in Fig. 10 of the drawings, in which the stud or pin receiving and retaining device is made in the form of a tubular block 17, of wood or other suitable material—such as papier-mâché, rubber, or the like—and which is held in position within the receiving socket or shell 4 by means of prongs 18 or other suitable projections or indentations embedded in the sides of the said block 17, as shown. This block 17 is also made with a tubular duct or opening 19 of slightly smaller cross-section than that of the stud or pin 8, but capable of receiving and holding the same in the manner previously set forth.

From an inspection of the several figures of the drawings the operations of the fastening device will be clearly understood, and it will be clearly evident that I have produced a simple and cheap construction of carpet-fastener which can be readily secured in place and by means of which a carpet can be easily arranged and secured upon the floor, whether said flooring is of cement, wood, or any other material, and which permits of the carpet being quickly lifted from the floor when found necessary.

I am aware that the fastener embodying the principles of my invention may also be put to many other uses.

It will be further understood that the arrangements and combinations of the various parts comprising the fastener, as well as the details of the construction thereof, may be modified and departed from without departing from the scope of my present invention. Hence I do not limit my invention to the exact arrangements and combinations of parts as described in the foregoing specification and as illustrated in the accompanying drawings; nor do I confine myself to the exact details of the construction of the said parts.

Having thus described invention, what I claim is—

1. A device for fastening carpets, or the like,

comprising, a chambered shell adapted to be arranged in a floor or similar body, an annular bead connected with said shell adapted to become embedded in the floor or similar body to prevent the withdrawal of said shell from the floor or similar body, a holding means in said shell, and a pin or stud inserted in the carpet, or the like, and in frictional engagement with said holding means in the shell, substantially as and for the purposes set forth.

2. A device for fastening carpets, or the like, comprising, a chambered shell adapted to be arranged in a floor or similar body, an annular bead connected with said shell adapted to become embedded in the floor or similar body to prevent the withdrawal of said shell from the floor or similar body, a flexible holding means in said shell, and a pin or stud inserted in the carpet, or the like, and in frictional holding engagement with said flexible holding means in the shell, substantially as and for the purposes set forth.

3. A device for fastening carpets, or the like, comprising, a chambered shell adapted to be arranged in a floor or similar body, an annular bead connected with said shell arranged to become embedded in said floor or similar body to prevent the withdrawal of said shell from the said floor or similar body, a flexible and longitudinally-split tubular sleeve in said shell, and a fastening pin or stud adapted to be brought in frictional holding engagement with the tubular part of said split sleeve, substantially as and for the purposes set forth.

4. The herein-described carpet-fastener, consisting, of a shell 4 provided with an annular bead 5, a throat 7, and a flaring mouth 6, a tubular sleeve in said shell, said sleeve being arranged between said bead and said throat, and a pin or stud adapted to be brought in frictional holding engagement with the tubular part of said sleeve, substantially as and for the purposes set forth.

5. The herein-described carpet-fastener, consisting, of a shell 4 provided with an annular bead 5, a throat 7, and flaring mouth 6, a tubular and longitudinally-split sleeve in said shell, said sleeve being arranged between said bead and said throat, and a pin or stud adapted to be brought in frictional holding engagement with the tubular part of said sleeve, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 6th day of October, 1903.

RICHARD REININGER.

Witnesses:

FREDK. C. FRAENTZEL,

GEO. D. RICHARDS.